Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this Application:

Listing of Claims:

- 1-7. (Canceled).
- 8. (Currently amended) An apparatus for production of acrylic acid or acrolein having a catalytic gas phase oxidation reactor, comprising:
- a) an evaporator for gasifying liquefied propylene and/or propane as raw material of acrylic acid or acrolein,
- b) a source of water or brine liquid coolant in the range of 0° C to 50° C to serve as liquid coolant,
 - c) means for supplying said liquid coolant in the range of 0 to 50° C to said evaporator,
 - d) a source of liquefied propylene and/or propane,
- e) means for introducing said liquefied propylene and/or propane into said evaporator, wherein said liquefied propylene and/or propane is gasified by said liquid coolant and said liquid coolant is chilled means for chilling the coolant in the to a range of -10° C to 40° C in the evaporator by recovering latent heat of the said liquefied propylene and/or propane,
 - <u>fe</u>) <u>a catalytic gas phase oxidation reactor</u>,
- g) means for subjecting resultant gasified propylene and/or propane to said catalytic gas phase oxidation reactor thereby preparing a gas containing acrylic acid or acrolein, and
- <u>hf</u>) means for circulating <u>said chilled coolant from the said evaporator to a heat exchangers, which are attached to the apparatus, <u>wherein said heat exchangers is being at least one member</u>-selected from the group consisting of an absorbing solvent cooler and a circulation cooler attached to <u>the an acrylic acid absorbing column</u>, a condenser attached to <u>the a solvent separating column</u>, and a condenser attached to <u>the an acrylic acid refining column</u>; and</u>
- <u>ig</u>) means for adjusting pressure of <u>the said</u> evaporator for gasifying liquefied propylene and/or propane in the range of about 0.2 to about 2 MPa in gauge pressure.
 - 9-13. (Canceled).

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14. (Currently amended) An apparatus for production of acrylic acid or acrolein having a catalytic gas phase oxidation reactor, comprising:

- a) an evaporator for gasifying liquefied propylene and/or propane,
- b) a source of liquid coolant in the range of 0°C to 50°C,
- c) means for supplying said liquid coolant to said evaporator,
- d) a source of liquefied propylene and/or propane,
- e) means for supplying liquefied propylene and/or propane to said evaporator, wherein said liquefied propylene and/or propane is gasified as a result of supplying said liquid coolant and said liquefied propylene and/or propane to said evaporator,
- f) means for chilling the said liquid coolant in the said evaporator by recovering latent heat of the said liquefied propylene and/or propane, wherein said means for chilling the said liquid coolant includes means for adjusting a temperature of said liquid coolant or means for adjusting a flow amount thereof,
- ge) means for subjecting resultant gasified propylene and/or propane to a catalytic gas phase oxidation reaction thereby preparing a gas containing acrylic acid or acrolein, and
- <u>hf</u>) means for circulating <u>said liquid</u> coolant from <u>thesaid</u> evaporator to <u>a</u> heat exchangers, which are attached to the apparatus, said heat exchangers being at least one member selected from the group consisting of an absorbing solvent cooler and a circulation cooler attached to <u>the an</u> acrylic acid absorbing column, a condenser attached to <u>the a</u> solvent separating column, and a condenser attached to <u>the an</u> acrylic acid refining column.